

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒ DEEPEN ☐

b. TYPE OF WELL

OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Shenandoah Energy Inc.

3. ADDRESS AND TELEPHONE NO. Phone: 435-781-4341

11002 East 17500 South

Fax: 435-781-4329

Vernal, Utah 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

481' FNL, 1873' FEL, NWNE

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

2 miles West of Redwash Utah

15. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest dry. Unit line if any)

481' ±

16. NO. OF ACRES IN LEASE

1920

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR ON THIS LEASE, FT.

1250' ±

19. PROPOSED DEPTH

5759'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5509.7' GR

22. APPROX. DATE WORK WILL START\*

A.S.A.P

23. PROPOSED CASING AND CEMENTING PROGRAM

REFER TO S.O.P

Shenandoah Energy Inc. proposes to drill a well to 5759' to test the Green River. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

Operations will be according to the Standard Operating Procedures for the Redwash Unit, Wasatch Valley Federal Unit and surrounding areas Green River formation.

See Onshore Order No. 1 attached.

Please be advised that Shenandoah Energy Inc. is considered to be the operator of the above mentioned well. Shenandoah Energy Inc. agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage for this well is provided by Bond No. 0969. The principal is Shenandoah Energy Inc. via surety as consent as provided for in 43 CFR 3104.2.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program if any.

24

SIGNED John Busch John Busch TITLE Red Wash Operations Representative DATE 11/16/00

(This space for Federal or State office use)

PERMIT NO. 43-047-33768 APPROVAL DATE \_\_\_\_\_

Application approval does not warrant or certify that the applicant holds title to these rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

BRADLEY G. HILL  
RECLAMATION SPECIALIST III

DATE

11/30/00 RECEIVED

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DIVISION OF  
OIL, GAS AND MINING

NOV 21 2000

**T7S, R23E, S.L.B.&M.**

***SHENANDOAH ENERGY, INC.***

WELL LOCATION, RED WASH #31-29B,  
LOCATED AS SHOWN IN THE NW 1/4 NE 1/4  
OF SECTION 29, T7S, R23E, S.L.B.&M. UTAH  
COUNTY, UTAH.

RECEIVED

NOV 21 2000

DIVISION OF  
OIL, GAS AND MINING



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF

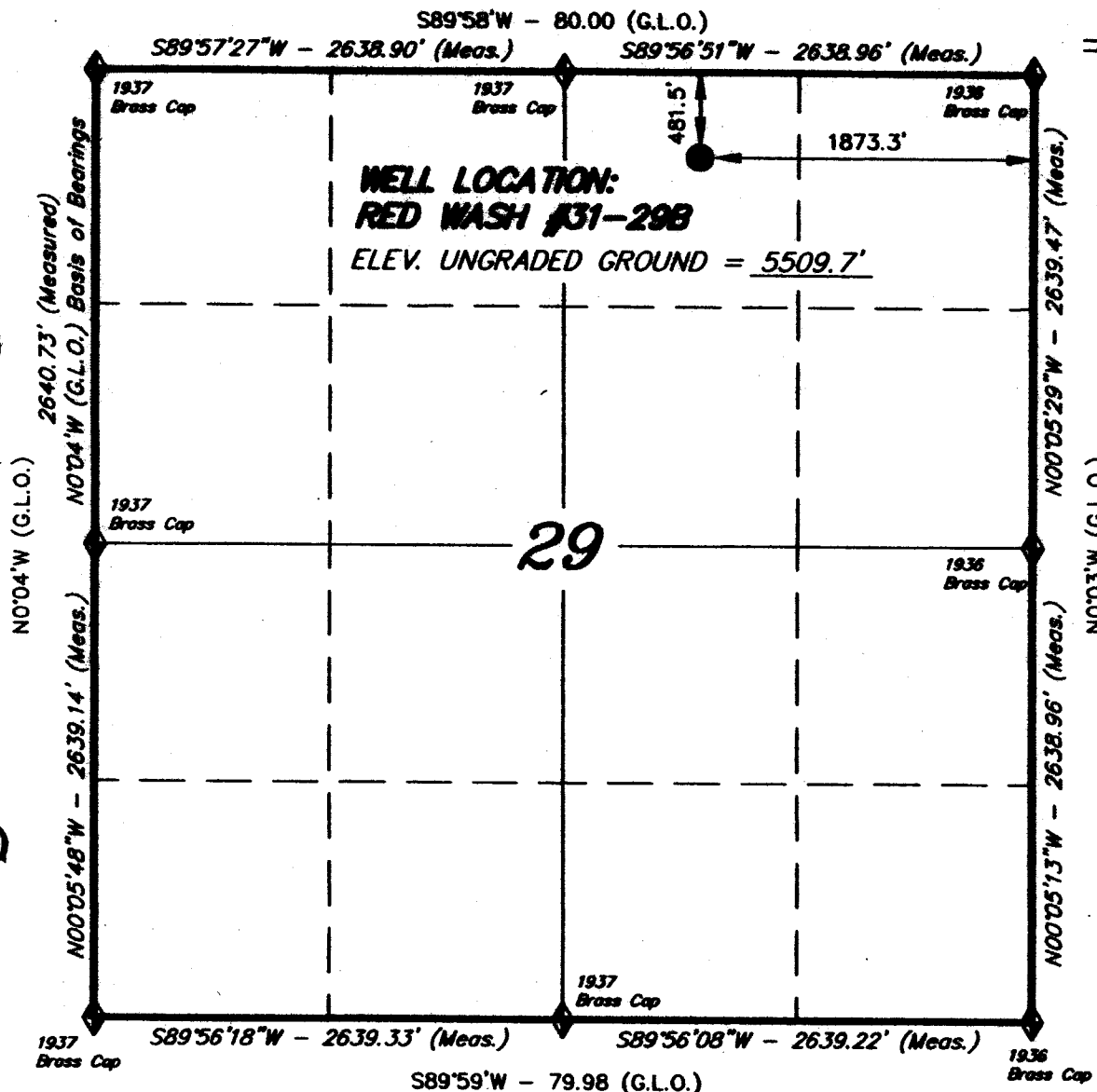
NESTOR

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 19412  
STATE OF UTAH

**TRI STATE LAND SURVEYING & CONSULTING**

38 WEST 100 NORTH - VERNAL, UTAH 84078  
(435) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: C.D.S.
DATE: 11-2-00	WEATHER: COOL
DRAWN BY: J.R.S.	FILE #



◆ = SECTION CORNERS LOCATED  
BASIS OF ELEV. U.S.G.S. 7-1/2 min QUAD (RED WASH)

**RED WASH #31-29B**  
LATITUDE = 40° 11' 11.45"  
LONGITUDE = 109° 20' 53.72"

DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1  
Approval of Operations on Onshore  
Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. Formation Tops

The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth</u>	<u>Prod. Phase Anticipated</u>
Uinta	Surface	
Green River	3034'	
Mahogany Ledge	3834'	
Mesa	5584'	
TD (Green River)	5759'	Oil

2. Anticipated Depths of Oil Gas Water and Other Mineral Bearing Zones

The estimated depths at which the top and bottom of the anticipated water, oil, gas. Or other mineral bearing formations are expected to be encountered are as follows:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Oil/Gas	Green River	5759'

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If no flows are detected, samples will be submitted to the BLM along with any water analyses conducted.

3. Anticipated Bottom Hole Pressures

Maximum anticipated bottom hole pressure equals approximately 2303.6 psi.

4. Surface Ownership

The well pad and access road are located on lands owned by the Federal Government.

RECEIVED

NOV 21 2000

DIVISION OF  
OIL, GAS AND MINING

Shenandoah Energy Inc.  
RW #31-29B

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

SHENANDOAH ENERGY INC.  
REDWASH #31-29B  
NWNE, SEC. 29, T7S, R23E, SLB&M  
UINTAH COUNTY, UTAH

1. Site Specific Stipulations

As per the onsite on November 15 with Greg Darlington Vernal BLM, Byron Tolman Vernal BLM, Raleen Searle Shenandoah Energy Inc., John Busch Shenandoah Energy Inc. the following stipulations were determined:

There will be a seed mix of 12lbs per acre consisting of:

- 4lbs per acre – Fourwing Saltbush
- 4lbs per acre – Shadscale
- 4lbs per acre – Gardner Saltbush

2. Other Information

Refer to the attached maps:

- Topo map A- Access routes
- Topo map B- Proposed Access road
- Topo map C- Location of wells within a one mile radius
- Topo map D- Proposed pipeline

**RECEIVED**

NOV 21 2000

DIVISION OF  
OIL, GAS AND MINING

**Lessee's or Operator's Representative:**

John Busch  
Red Wash Operations Rep.  
Shenandoah Energy Inc.  
11002 East 17500 South  
Vernal, Utah 84078  
(435) 781-4341

**Certification:**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil & Gas Orders, the approved plan of operations, and any applicable Notice to Lessees.

Shenandoah Energy Inc. will be fully responsible for the actions of their subcontractors.

A complete copy of the approved Application for Permit to Drill will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Shenandoah Energy Inc. its' contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

John Busch  
John Busch  
Red Wash Operations Representative

**November 16, 2000**

Date

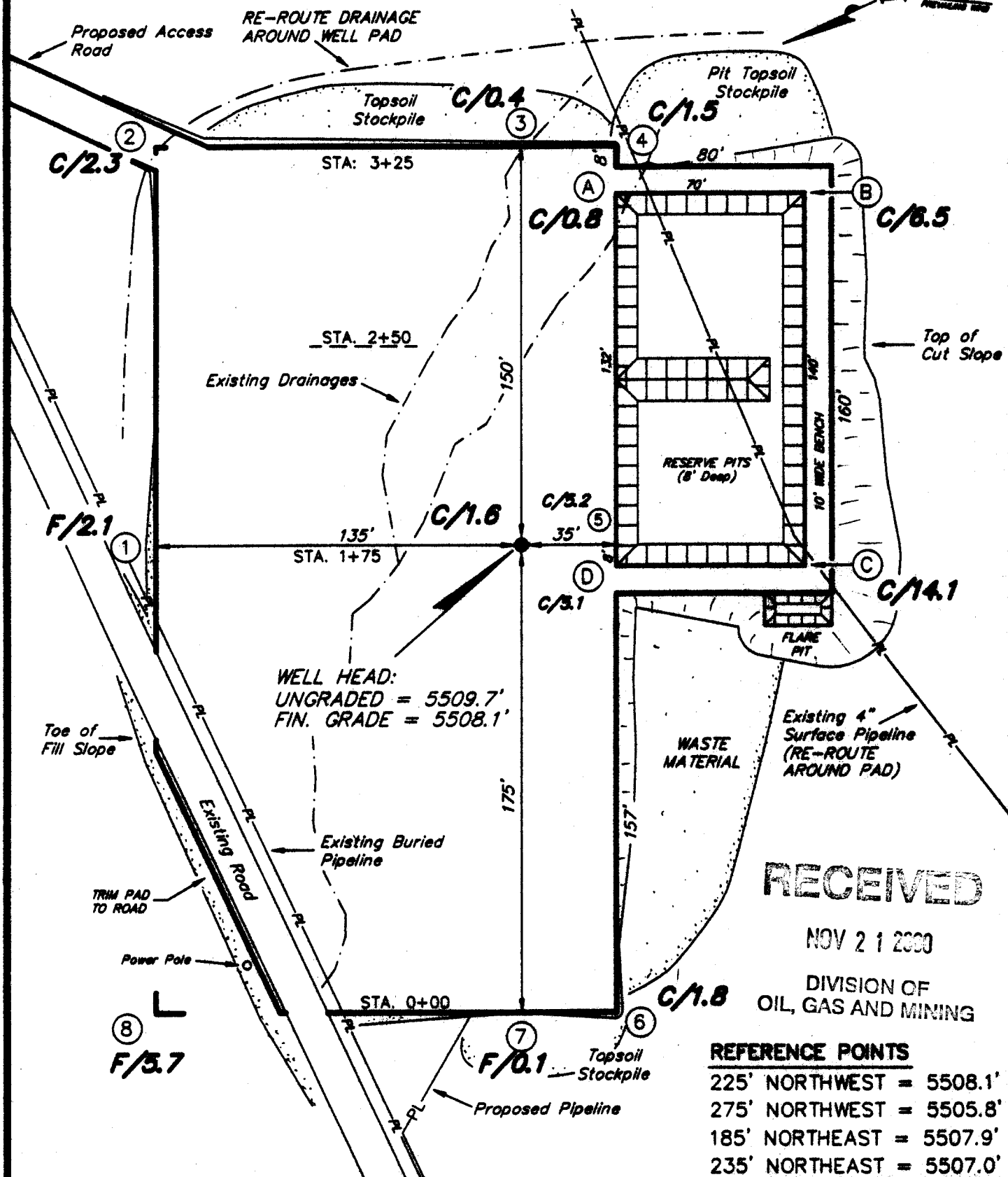
**RECEIVED**

NOV 21 2000

DIVISION OF  
OIL, GAS AND MINING

# SHENANDOAH ENERGY, INC.

**RED WASH #31-29B**  
SEC. 29, T7S, R23E, S.L.B.&M.



**RECEIVED**

NOV 21 2000

DIVISION OF  
OIL, GAS AND MINING

## REFERENCE POINTS

225' NORTHWEST = 5508.1'  
275' NORTHWEST = 5505.8'  
185' NORTHEAST = 5507.9'  
235' NORTHEAST = 5507.0'

SURVEYED BY: C.D.S.

SCALE: 1" = 50'

DRAWN BY: J.R.S.

DATE: 11-2-00

**Tri State**  
**Land Surveying, Inc.**

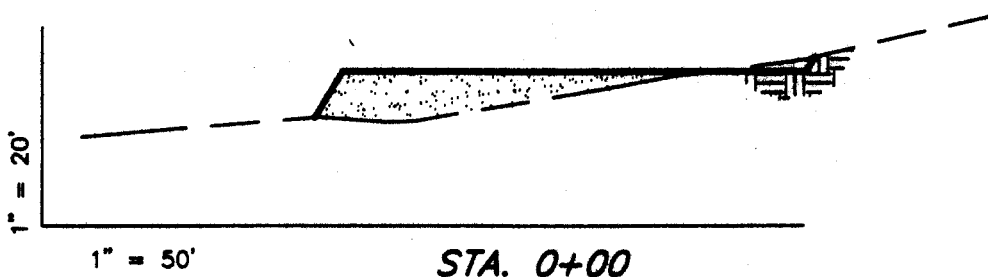
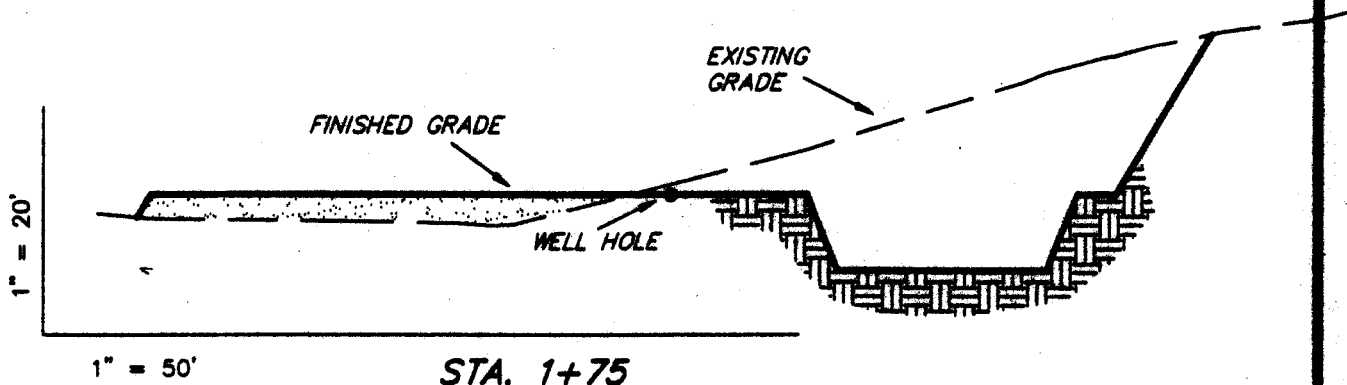
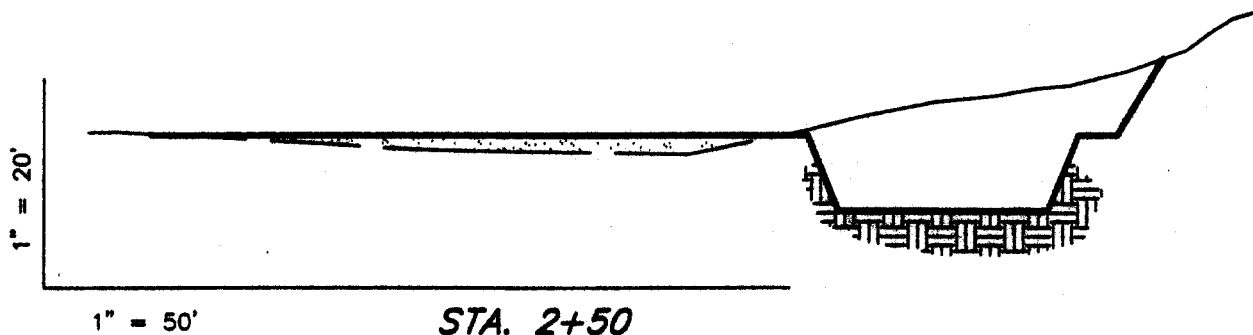
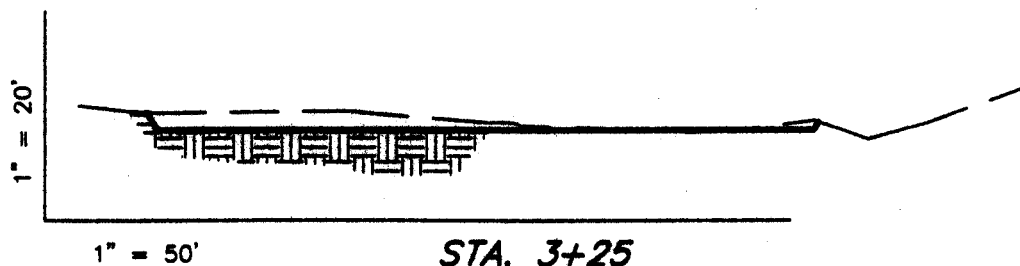
38 WEST 100 NORTH VERMILION, UTAH 84078

(435) 781-2301

# SHENANDOAH ENERGY, INC.

## CROSS SECTIONS

### RED WASH #31-29B



#### APPROXIMATE YARDAGES

CUT = 3,730 Cu. Yds.

FILL = 3,730 Cu. Yds.

PIT = 2,370 Cu. Yds.

6" TOPSOIL = 1,260 Cu. Yds.

RECEIVED

NOV 21 2000

DIVISION OF  
OIL, GAS AND MINING

SURVEYED BY: C.D.S.

SCALE: 1" = 50'

DRAWN BY: J.R.S.

DATE: 11-2-00

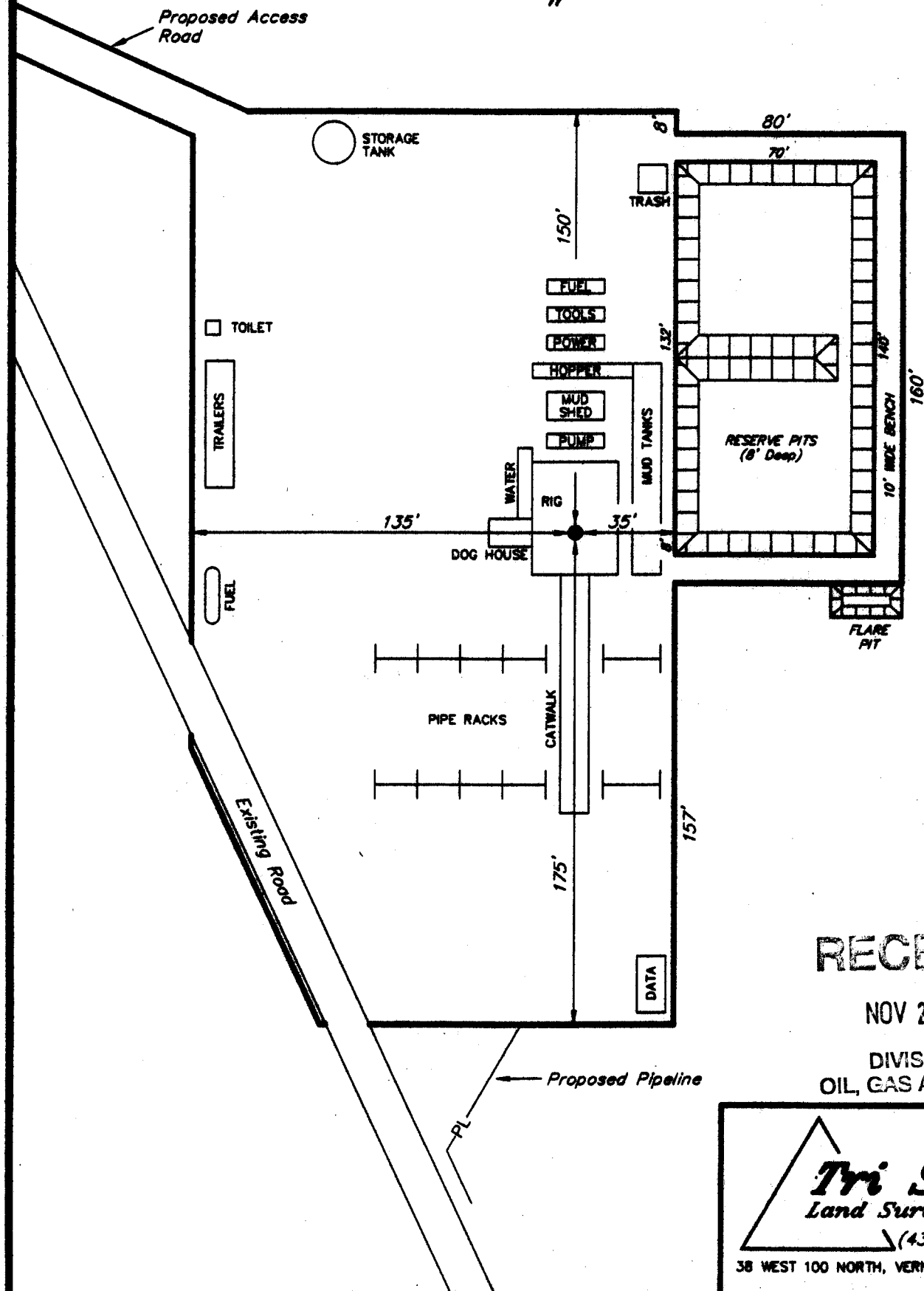
**Tri State**  
Land Surveying, Inc.  
38 WEST 100 NORTH VERNAL, UTAH 84078

(435) 781-2501

# SHENANDOAH ENERGY, INC.

## TYPICAL RIG LAYOUT

### RED WASH #31-29B



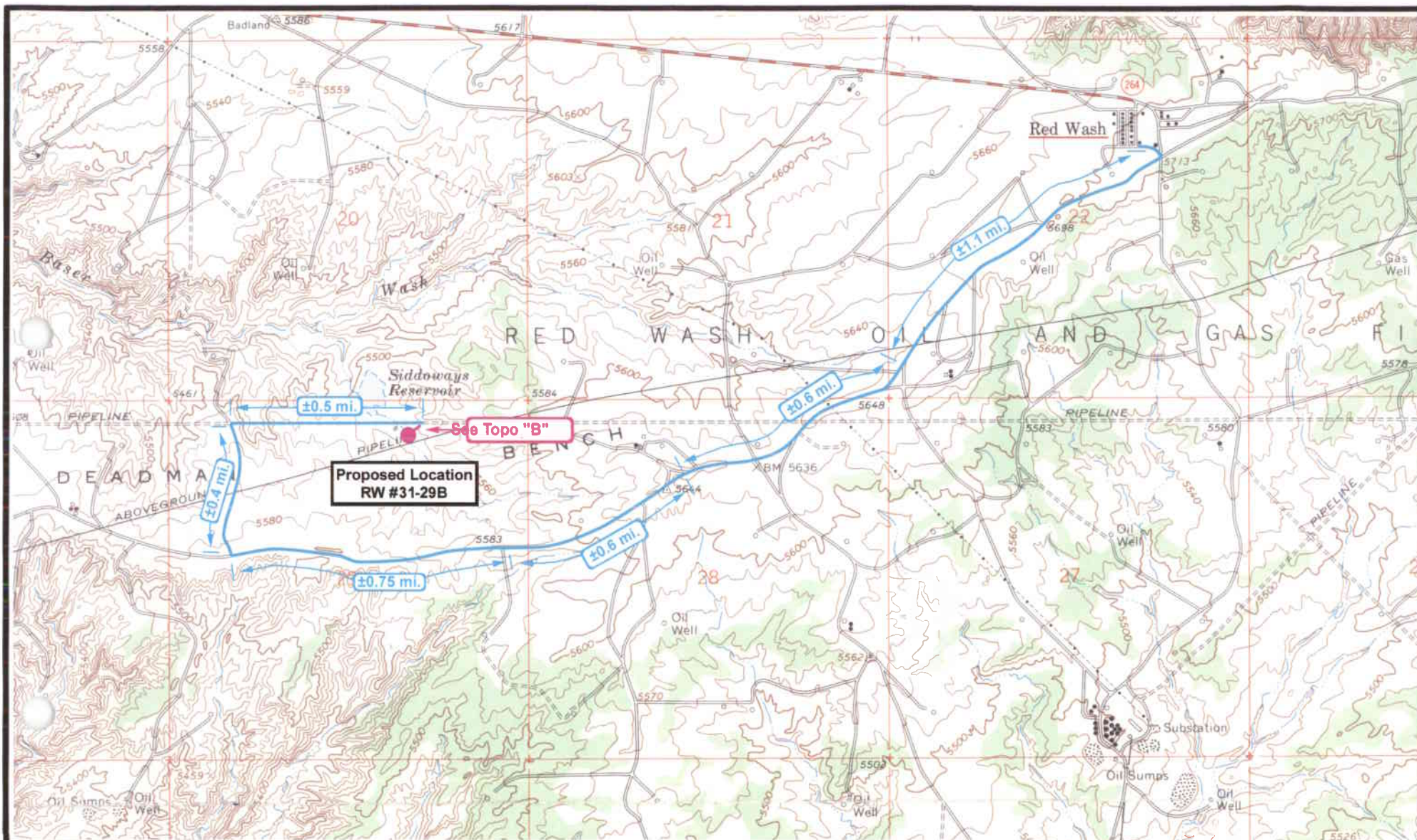
RECEIVED

NOV 21 2000

DIVISION OF  
OIL, GAS AND MINING

**Tri State**  
Land Surveying, Inc.  
(435) 781-2501  
38 WEST 100 NORTH, VERNAL, UTAH 84078





**SH ENANDOAH ENERGY INC.**

**RED WASH #31-29B**

**SEC. 29, T7S, R23E, S.L.B.&M.**

**TOPOGRAPHIC MAP "A"**



Drawn By: bgm

Revision:

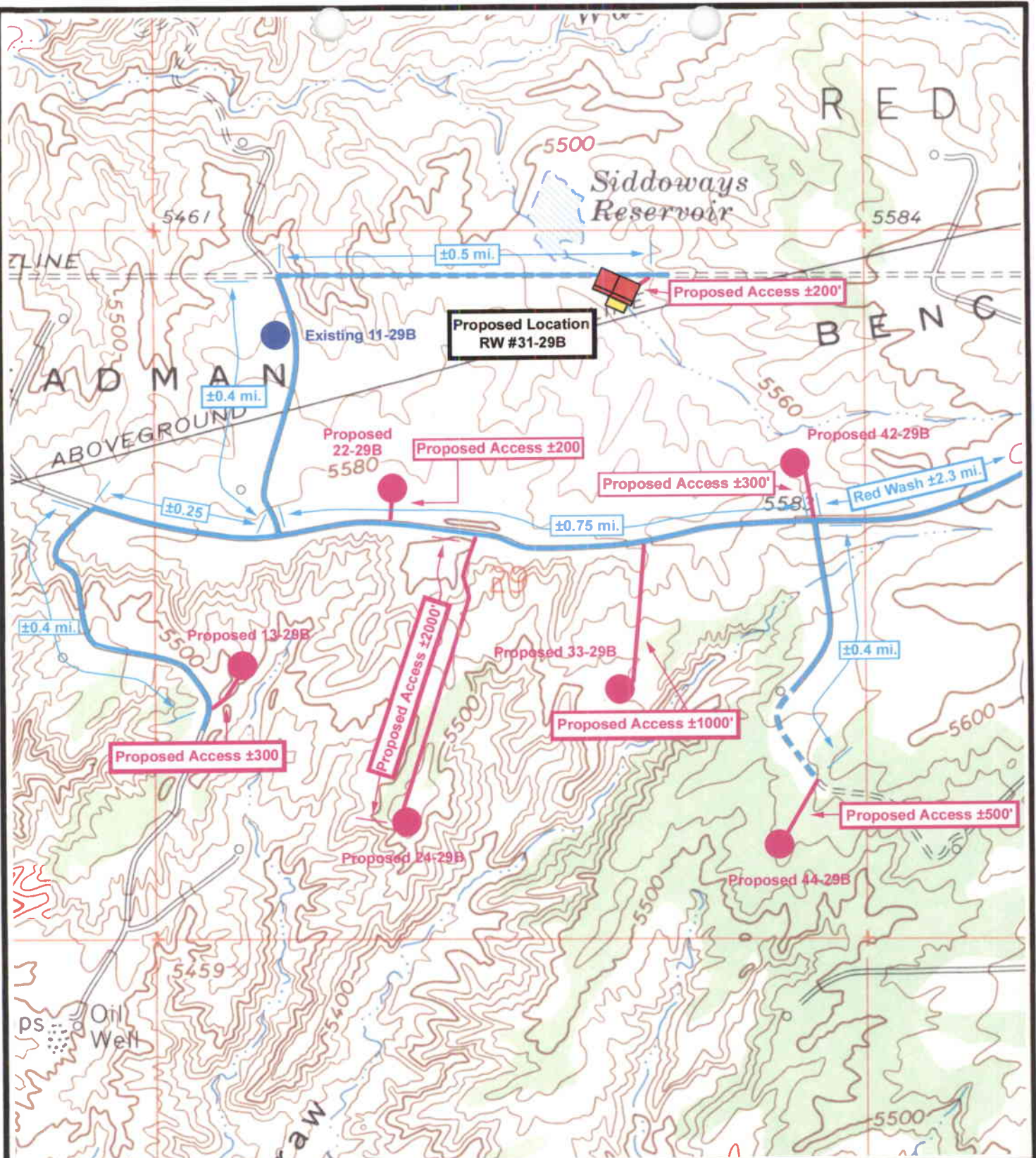
Scale: 1" = 2000'

File:

Date: 11-06-2000

**Tri-State Land Surveying Inc.**  
**P.O. Box 533, Vernal, UT 84078**  
**35-781-2501 Fax 435-81-2518**





**SHENANDOAH ENERGY INC.**  
**RED WASH #31-29B**  
**SEC. 29, T7S, R23E, S.L.B.&M.**  
**TOPOGRAPHIC MAP "B"**



Drawn By: bgm	Revision:
Scale: 1" = 1000'	File:
Date: 11-03-2000	
Tri-State Land Surveying Inc. P.O. Box 533, Vernal, UT 84078 435-781-2501 Fax 435-781-2518	

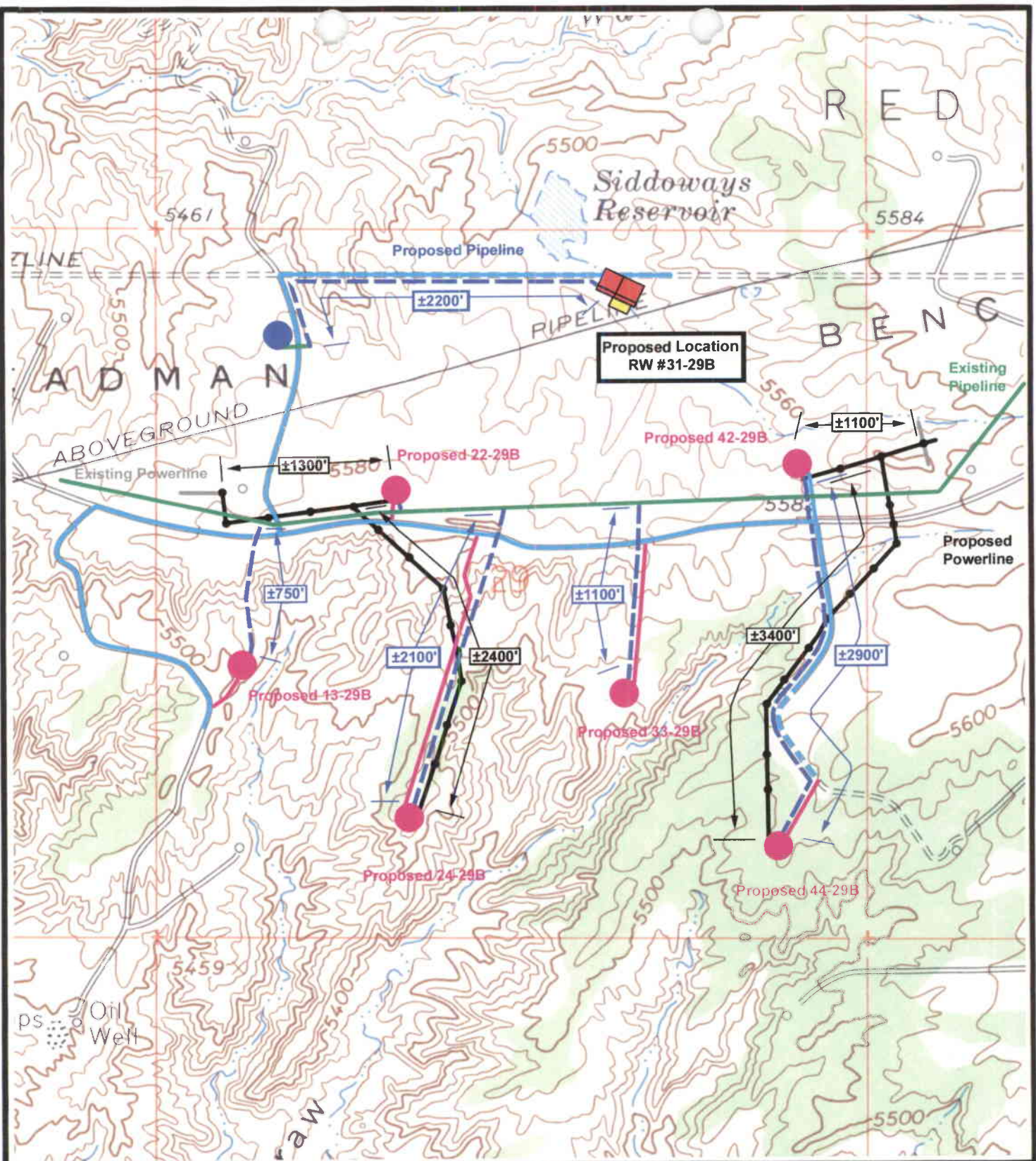




## TOPOGRAPHIC MAP "C"

**Tri-State Land Surveying Inc.**  
**P.O. Box 533, Vernal, UT 84078**  
**435-781-2501 Fax 435-781-2518**





**SHENANDOAH ENERGY INC.**

**RED WASH #31-29B**

**SEC. 29, T7S, R23E, S.L.B.&M.**

**TOPOGRAPHIC MAP "D"**



Drawn By: bgm

Revision:

Scale: 1" = 1000'

File:

Date: 11-03-2000

Tri-State Land Surveying Inc.  
P.O. Box 533, Vernal, UT 84078  
435-781-2501 Fax 435-781-2518

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/21/2000

API NO. ASSIGNED: 43-047-33768

WELL NAME: RWU 31-29B

OPERATOR: SHENANDOAH ENERGY INC ( N4235 )

CONTACT: JOHN BUSCH

PHONE NUMBER: 435-781-4341

**PROPOSED LOCATION:**

NWNE 29 070S 230E

SURFACE: 0481 FNL 1873 FEL

BOTTOM: 0481 FNL 1873 FEL

UINTAH

RED WASH ( 665 )

LEASE TYPE: 1-Federal

LEASE NUMBER: U-02025

SURFACE OWNER: 1-Federal

PROPOSED FORMATION: GRRV

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

**RECEIVED AND/OR REVIEWED:**

☒ Plat

☒ Bond: Fed ☒ Ind[] Sta[] Fee[]  
(No. UT-0969 )

☐ Potash (Y/N)

☐ Oil Shale (Y/N) \*190-5 (B) or 190-3

☒ Water Permit  
(No. 43-8496 )

☐ RDCC Review (Y/N)  
(Date: )

☐ Fee Surf Agreement (Y/N)

**LOCATION AND SITING:**

☐ R649-2-3. Unit RED WASH

☒ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

☐ R649-3-3. Exception

☐ Drilling Unit

Board Cause No:

Eff Date:

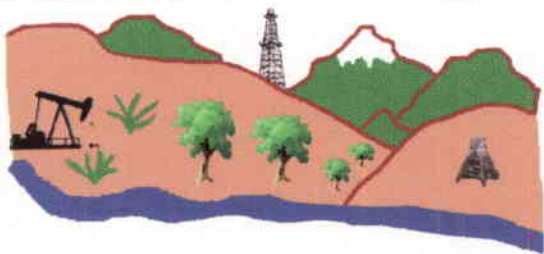
Siting:

☐ R649-3-11. Directional Drill

COMMENTS: Red Wash Sol, separate file.

STIPULATIONS: ① FEDERAL APPROVAL





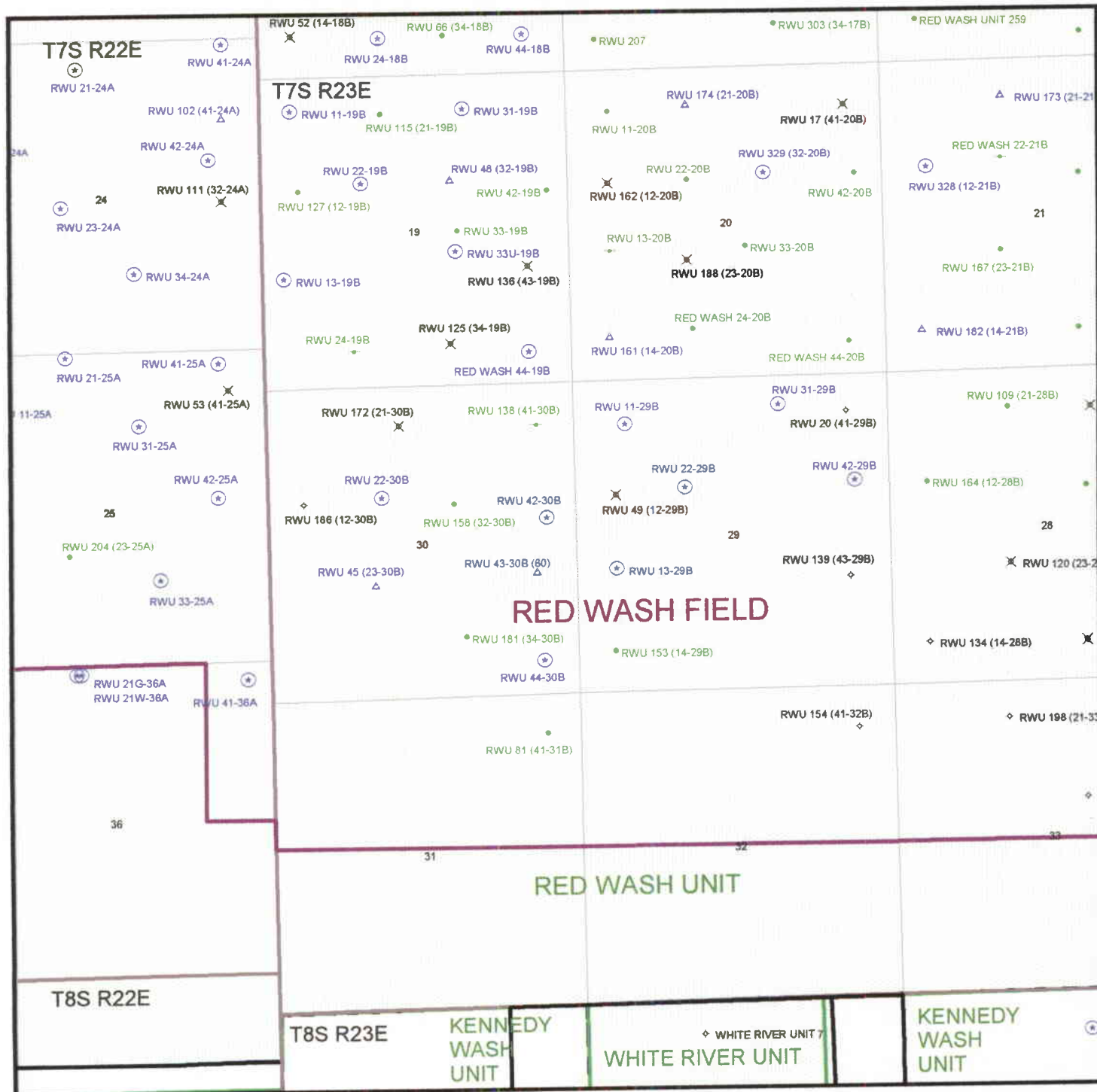
Utah Oil Gas and Mining

OPERATOR: SHENANDOAH ENERGY (N4235)

FIELD: RED WASH (665)

SEC. 29 & 30, T7S, R23E,

COUNTY: UTAH UNIT: RED WASH  
SPACING: R649-3-2 & R649-3-3



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

November 29, 2000

### Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2000 Plan of Development Red Wash Unit,  
Uintah County, Utah.

Pursuant to email between Lisha Cordova, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management. The following wells are planned for calendar year 2000 within the Red Wash Unit, Uintah County, Utah.

Api Number	Well	Location
(Proposed Green River Completions)		
43-047-33764	RWU 13-29B	Sec. 29, T7S, R23E 2040 FSL 0673 FWL
43-047-33765	RWU 22-13A	Sec. 13, T7S, R22E 2600 FNL 1866 FWL *
43-047-33766	RWU 22-29B	Sec. 29, T7S, R23E 1874 FNL 1820 FWL
43-047-33767	RWU 22-30B	Sec. 30, T7S, R23E 1896 FNL 1891 FWL
43-047-33768	RWU 31-29B	Sec. 29, T7S, R23E 0481 FNL 1873 FEL
43-047-33769	RWU 41-24A	Sec. 24, T7S, R22E 0095 FNL 0659 FEL
43-047-33770	RWU 42-29B	Sec. 29, T7S, R23E 1755 FNL 0593 FEL
43-047-33771	RWU 42-30B	Sec. 30, T7S, R23E 2249 FNL 0497 FEL
43-047-33772	RWU 44-30B	Sec. 30, T7S, R23E 0586 FSL 0542 FEL

\* Well currently not within an existing participating area

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Red Wash Unit  
Division of Oil Gas and Mining  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:11-29-0



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Kathleen Clarke  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

November 30, 2000

Shenandoah Energy Inc.  
11002 E 17500 S  
Vernal, UT 84078

Re: Red Wash Unit 31-29B Well, 481' FNL, 1873' FEL, NW NE, Sec. 29, T. 7 South,  
R. 23 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-33768.

Sincerely,

A handwritten signature in black ink, appearing to read 'John R. Baza'.

John R. Baza  
Associate Director

er

Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office



**Operator:** Shenandoah Energy Inc.

**Well Name & Number** Red Wash Unit 31-29B

**API Number:** 43-047-33768

**Lease:** U 02025

**Location:** NW NE      **Sec.** 29      **T.** 7 South      **R.** 23 East

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTSUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)APPROVED  
USM NO. 1084-0136  
Expires February 28, 1995

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

## 1b. TYPE OF WELL

OIL

WELL ☒

GAS

WELL ☐

OTHER

SINGLE

ZONE ☒

MULTIPLE

ZONE ☐

## 2. NAME OF OPERATOR

Shenandoah Energy Inc.

3. ADDRESS AND TELEPHONE NO. Phone: 435-781-4341  
Fax: 435-781-432911002 East 17500 South  
Vernal, Utah 84078

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

481' FNL, 1873' FEL, NWNE

At proposed prod. Zone

Same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

2 miles West of Redwash Utah

15. DISTANCE FROM PROPOSED  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drg. Unit line if any)

481' ±

16. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR ON THIS LEASE, FT.

1250' ±

## 18. NO. OF ACRES IN LEASE

1920

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 19. PROPOSED DEPTH

5759'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether BP, RT, GR, etc.)

5509.7' GR

## 22. APPROX. DATE WORK WILL START\*

A.S.A.P

## 23. PROPOSED CASING AND CEMENTING PROGRAM

REFER TO S.O.P

Shenandoah Energy Inc. proposes to drill a well to 5759' to test the Green River. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

Operations will be according to the Standard Operating Procedures for the Redwash Unit, Wasatch Valley Federal Unit and surrounding areas Green River formation.

This well is in our desired water flood pattern and is slated to become an injection well after initial production.

The injection line will be buried 4', using 3" schedule 80, synergy coated pipe.

See Onshore Order No. 1 attached.

Please be advised that Shenandoah Energy Inc. is considered to be the operator of the above mentioned well. Shenandoah Energy Inc. agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage for this well is provided by Bond No. 0969. The principal is Shenandoah Energy Inc. via surety as consent as provided for in 43 CFR 3104.2.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give minimum proventor program if any.

24

SIGNED

John Busch

John Busch

TITLE Red Wash Operations Representative

DATE

11/16/00

(This space for Federal or State office use)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

Thomas D. Leavengood

TITLE

Assistant Field Manager  
Mineral Resources

DATE

04/17/2001

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

0061M

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Shenandoah Energy, Inc.

Well Name & Number: RWU #31-29B

API Number: 43-047-33768

Lease Number: U - 02025

Location: NWNE Sec. 29 T. 7S R. 23E

Agreement: Red Wash GR UNIT

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

### **CONDITIONS OF APPROVAL FOR NOTICE TO DRILL**

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. **DRILLING PROGRAM**

1. **Casing Program and Auxiliary Equipment**

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the shallowest potential productive zone.

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

-Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).

The road shall be constructed/upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Construction/upgrading shall include ditching, draining, and crowning (2 to 3%). Graveling or capping the roadbed will be required as necessary to provide a well constructed safe road. Prior to construction/upgrading, the proposed road surface or existing road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Should mud holes develop, they shall be filled in to prevent detours. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainage be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. When snow is removed from the road during the winter months, the snow shall be pushed outside of the burrow ditches and the turn outs shall be kept clear so that when the snow melts the water will be channeled away from the road.

Shenandoah Energy will control noxious weeds along the right-of-way for roads, pipelines, well sites or other applicable facilities. If noxious weeds spread from disturbed areas onto adjoining lands, Shenandoah shall be responsible for control of the infestation. A list of noxious weeds may be obtained from the BLM, or the appropriate County Extension Office. On BLM administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.

If cultural resources or paleontological resources are found, the BLM Authorized Officer shall be notified. Procedures described in the Standard Operating Practices for Red Wash Unit Green River Formation Wells will be followed as such finds are evaluated.

A Burrowing Owl Inventory must be conducted by a qualified biologist to determine if any Burrowing Owls are present in the vicinity before allowing any construction and drilling activities of this project to begin during the breeding season April 10 through August 15. If Burrowing Owls are present in the vicinity, no construction and drilling of this location shall take place during the Burrowing Owl breeding season of April 10 through August 15 in order to limit impacts to owl habitat. When the buried water injection line is constructed to convert this well to a water injection well as anticipated, the construction shall also be subject to this stipulation.

The reserve pit does not need a liner unless blasting is required.

A water diversion structure will be needed in the drainage to the southeast of the well location and just north of the pipeline. The structure will divert the runoff water around the east end of the location and there will be a low water crossing on the new access road.

Corner 2 of the location shall be rounded in order to allow the drainage to flow by naturally.

The access road will be reclaimed once the well has been drilled and the pipeline road will be used to access the location for production operations.

Four to six inches of topsoil shall be stripped from the location and windowed as shown on the cut sheet. This topsoil shall be seeded as described in the standard operating plan with the recommended seed mix shown below.

The pipeline disturbance will be kept to a 30' width. The topsoil shall be stripped and windowed along the edge of the cleared area, then replaced prior to seeding the disturbed area. Care shall be taken not to mix the topsoil with the subsoil from the trench.

The following seed mix shall be used to seed the topsoil pile, reserve pit, and for final abandonment of the location:

Fourwing saltbush	Atriplex canescens	4 lbs/acre
Gardner saltbush	Atriplex gardneri	4 lbs/acre
Shadscale	Atriplex confertifolia	4 lbs/acre

All poundages are in pure live seed.

The seeding of the reserve pit shall be done in the same manner as the seeding of the topsoil pile; however, seeding of the pipeline disturbance and location after final abandonment can be completed by drilling the seed, broadcasting the seed, and dragging the disturbed area to cover the seed, or by broadcasting the seed then walking it in with a dozer.

**All seeding shall be done immediately after the dirt work has been completed.**

Water bars shall be constructed at 30 foot intervals along the pipeline where it traverses steep slopes.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil

Gas



Well



Well



Other

CONFIDENTIAL

2. Name of Operator

SHENANDOAH ENERGY INC

3. Address and Telephone No

11002 E. 17500 S. VERNAL, UT 84078-8526

(801) 781-4341

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

481' FNL, 1873' FEL NWNE

T07S R23E SEC-29

5. Lease Designation and Serial No.

U-02025

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

Red Wash Unit

8. Well Name and No.

RWU 31-29B

9. API Well No.

43-047-33768

10. Field and Pool, or Exploratory Area

RED WASH - GREEN RIVER

11. County or Parish, State

UINTAH, UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION



Notice of Intent



Subsequent Report



Final Abandonment Notice

TYPE OF ACTION



Abandonment



Recompletion



Plugging Back



Casing Repair



Altering Casing



Other APD Extension



Change of Plans



New Construction



Non-Routine Fracturing



Water Shut-Off



Conversion to Injection



Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

Shenandoah Energy Inc. hereby requests an 1 year extension on the RWU 31-29B.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date:

03-14-02

By:

*[Signature]*

RECEIVED

MAR 14 2002

DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct.

Signed **JOHN BUSCH**

*John Busch*

Title **OPERATIONS REPRESENTATIVE**

Date

2/28/02

(This space for Federal or State office use)

Approved by:

Title

Date

Conditions of approval, if any

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well	RECEIVED APR 23 2002
<input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator	
SHENANDOAH ENERGY INC	
3. Address and Telephone No	
11002 E. 17500 S. VERNAL, UT 84078-8526	(801) 781-4341
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)	
481' FNL, 1873' FEL NWNE	

5. Lease Designation and Serial No.
U-02025
6. If Indian, Allottee or Tribe Name
N/A
7. If Unit or CA, Agreement Designation
Red Wash Unit
8. Well Name and No.
RWU 31-29B
9. API Well No.
43-047-33768
10. Field and Pool, or Exploratory Area
RED WASH - GREEN RIVER
11. County or Parish, State
UINTAH, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>APD Extension</u>	<input type="checkbox"/> Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

Shenandoah Energy Inc. hereby requests an 1 year extension on the RWU 31-29B.

RECEIVED

JUN 12 2002

DIVISION OF  
OIL, GAS AND MINING

CONDITIONS OF APPROVAL ATTACHED

14. I hereby certify that the foregoing is true and correct.

Signed JOHN BUSCH *John Busch*

Title OPERATIONS REPRESENTATIVE

Date 4-22-02

(This space for Federal or State office use)

Approved by: *Kirk Johnson*

Title Petroleum Engineer

Date 6/5/02

Conditions of approval, if any

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See instruction on Reverse Side

DOGMA



Shenandoah Energy Inc.  
APD Extension

Well: RWU 31-29B

Location: NWN Sec 29 T7S, R23E

Lease: U-02025

**CONDITIONS OF APPROVAL**

An extension for the referenced APD is granted with the following conditions:

---

1. The extension will expire 4/16/03
2. No other extensions beyond that time frame will be granted or allowed.

If you have any other questions concerning this matter, please contact Kirk Fleetwood of this office at (435) 781-4486

**RECEIVED**

JUN 12 2002

DIVISION OF  
OIL, GAS AND MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

5. Lease Serial No.  
U-02025

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
RED WASH UNIT

8. Well Name and No.  
RED WASH 31-29B

9. API Well No.  
43-047-33768

10. Field and Pool, or Exploratory  
RED WASH

11. County or Parish, and State  
UINTAH COUNTY, UT

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
SHENANDOAH ENERGY INC.

Contact: RALEEN SEARLE  
E-Mail: raleen.searle@questar.com

3a. Address  
11002 EAST 17500 SOUTH  
VERNAL, UT 84078

3b. Phone No. (include area code)  
Ph: 435.781.4309  
Fx: 435.781.4329

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 29 T7S R23E NWNE 481FNL 1873FEL

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

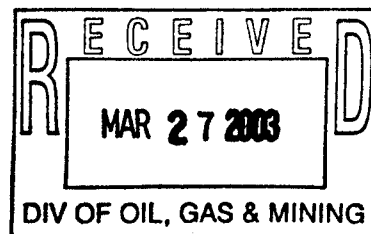
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Shenandoah Energy Inc. hereby requests an one year extension on the APD for the RW 31-29B.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

Date: 03-31-03  
By: *[Signature]*

COPY SENT TO OPERATOR  
Date: 03-31-03  
Initials: *[Signature]*



14. I hereby certify that the foregoing is true and correct.

Electronic Submission #19954 verified by the BLM Well Information System  
For SHENANDOAH ENERGY INC., will be sent to the Vernal

Name (Printed/Typed) RALEEN SEARLE

Title REGULATORY AFFAIRS ANALYST

Signature *Raleen Seale*

Date 03/25/2003

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office \_\_\_\_\_

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* DRAFT \*\* DRAFT \*\* DRAFT \*\* DRAFT \*\* DRAFT \*\* DRAFT \*\* DRAFT \*\***



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Vernal Field Office

170 South 500 East

Vernal, Utah 84078-2799

<http://www.blm.gov/utah/vernal>

Phone: (435) 781-4400

Fax: (435) 781-4410

IN REPLY REFER TO:

3160

UT08300

June 12, 2003

Raleen Searle  
Shenandoah Energy Inc.  
11002 East 17500 South  
Vernal, UT 84078

Re: Notification of Expiration  
Well No. RWU 31-29B  
NWNE, Sec. 29, T7S, R23E  
Uintah County, Utah  
Lease No. UTU-02025  
Red Wash GR

Dear Raleen:

The Application for Permit to Drill the above-referenced well was approved on April 17, 2001. A one (1) year extension of the original APD was requested. The request was reviewed and the extension approved until April 17, 2003. According to our records, no known activity has transpired at the approved location. In view of the foregoing, this office is notifying you that the approval of the referenced application has expired. If you intend to drill at this location at a future date, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

Sincerely,

Leslie Walker  
Legal Instruments Examiner

cc: UDOGM – Diana Mason

RECEIVED

JUN 18 2003

DIV. OF OIL, GAS & MINING



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

(801) 538-5340 telephone

(801) 359-3940 fax

(801) 538-7223 TTY

[www.nr.utah.gov](http://www.nr.utah.gov)

Michael O. Leavitt  
Governor

Robert L. Morgan  
Executive Director

Lowell P. Braxton  
Division Director

June 19, 2003

Raleen Searle  
Shenandoah Energy Inc.  
11002 East 17500 South  
Vernal, Utah 84078

Re: APD Rescinded – RWU 31-29B, Sec. 29, T.7S, R.23E – Uintah County, Utah,  
API No. 43-047-33768

Dear Ms. Searle:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on November 30, 2000. On March 14, 2002 and on March 31, 2003 the Division granted a one-year APD extension. On June 12, 2003 the Division received a letter from the Bureau of Land Management (BLM), which states that the permit filed with the BLM was being returned. I contacted you at that time and you requested that the APD filed with the Division be rescinded. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective June 12, 2003, as requested.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason  
Engineering Technician

cc: Well File  
Bureau of Land Management, Vernal